

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P946229

Luminaire Tested: **GALN-SB1D-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6245 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

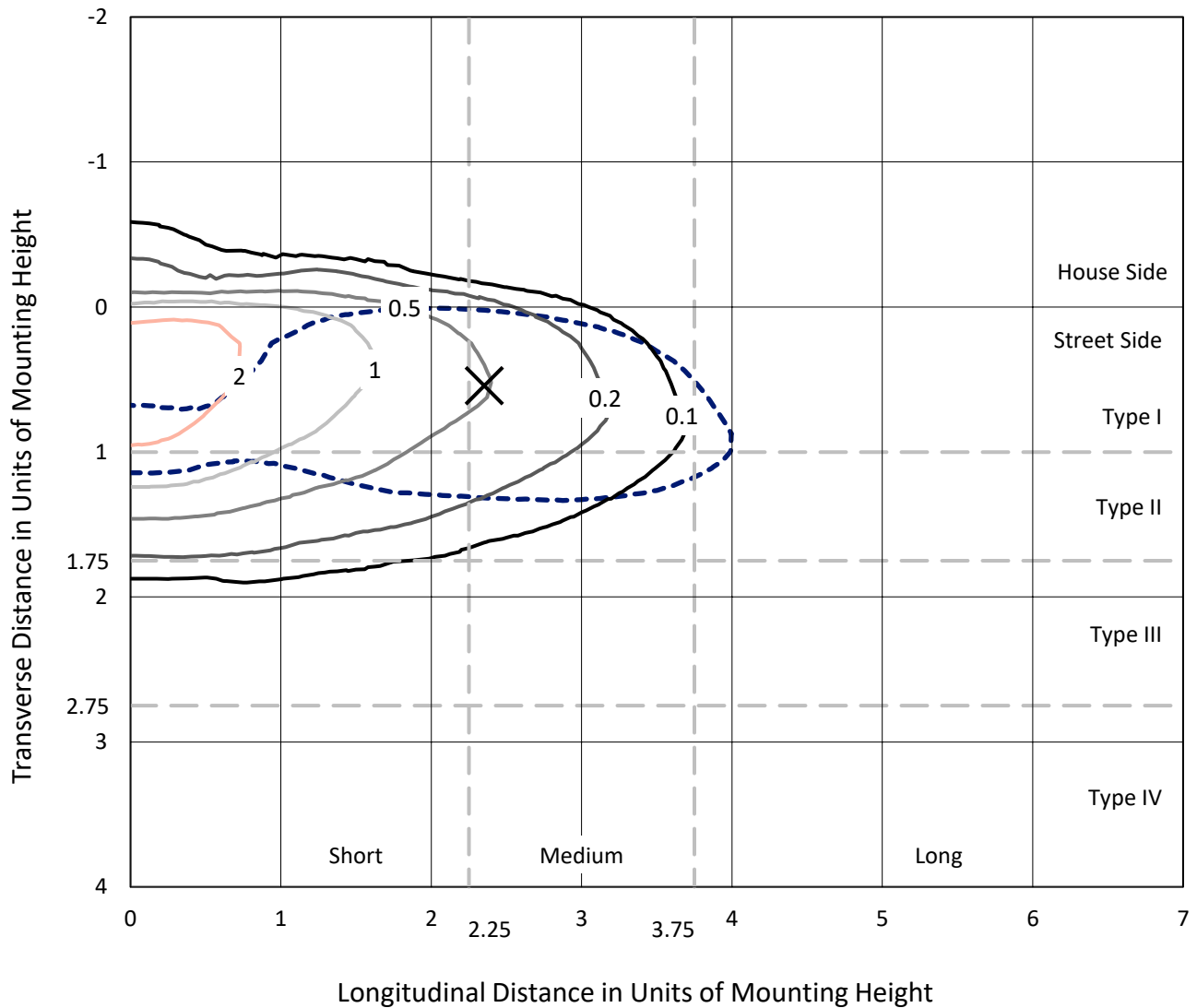
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

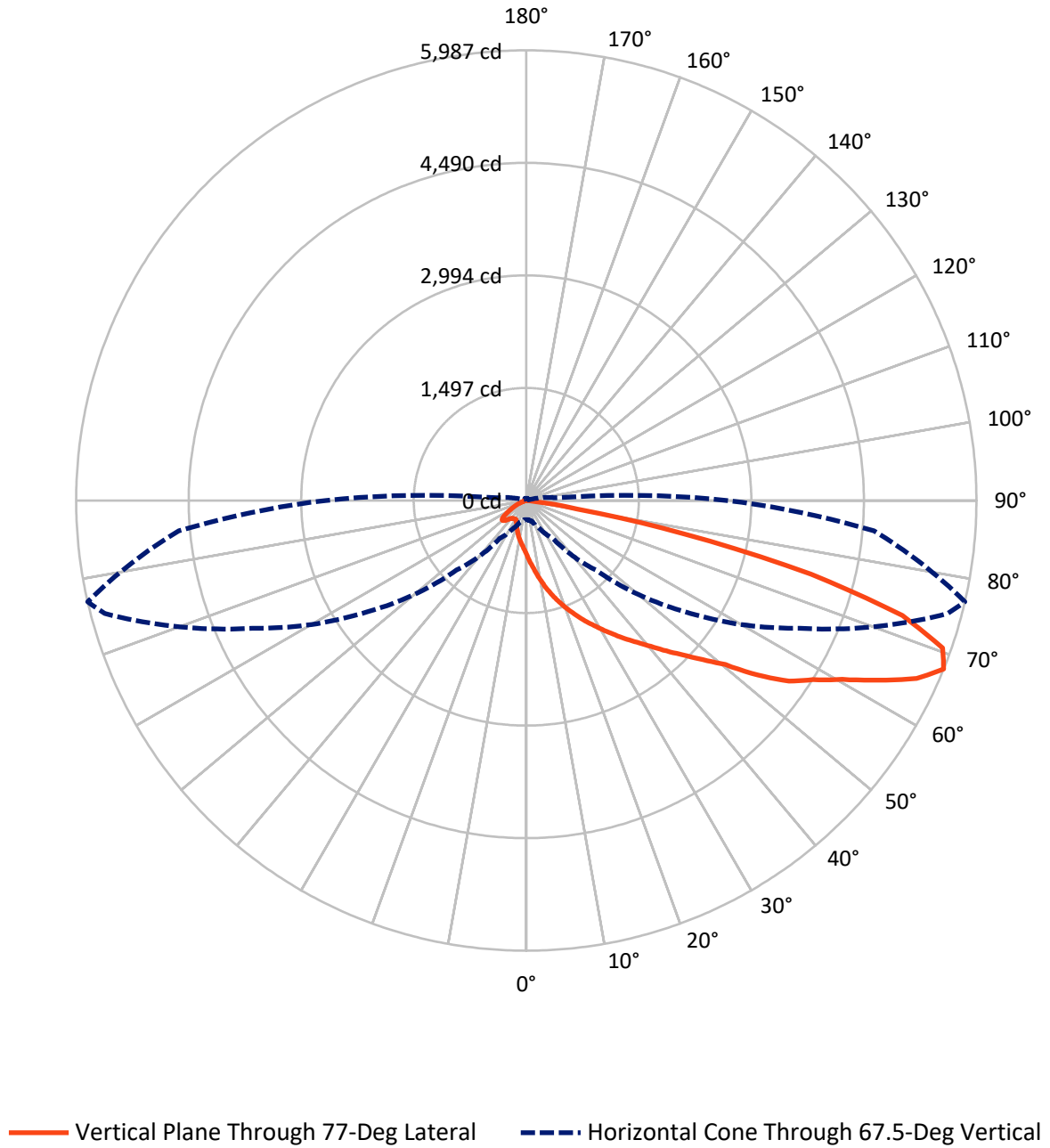
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	459.5	0.0	459.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	5785.6	0.0	5785.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	6245.0	0.0	6245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.2
10°-20°	257.4	4.1
20°-30°	496.7	8.0
30°-40°	862.3	13.8
40°-50°	1252.0	20.0
50°-60°	1437.8	23.0
60°-70°	1248.3	20.0
70°-80°	588.0	9.4
80°-90°	29.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6245.0	100.0
0°-180°	6245.0	100.0

Coefficient of Utilization



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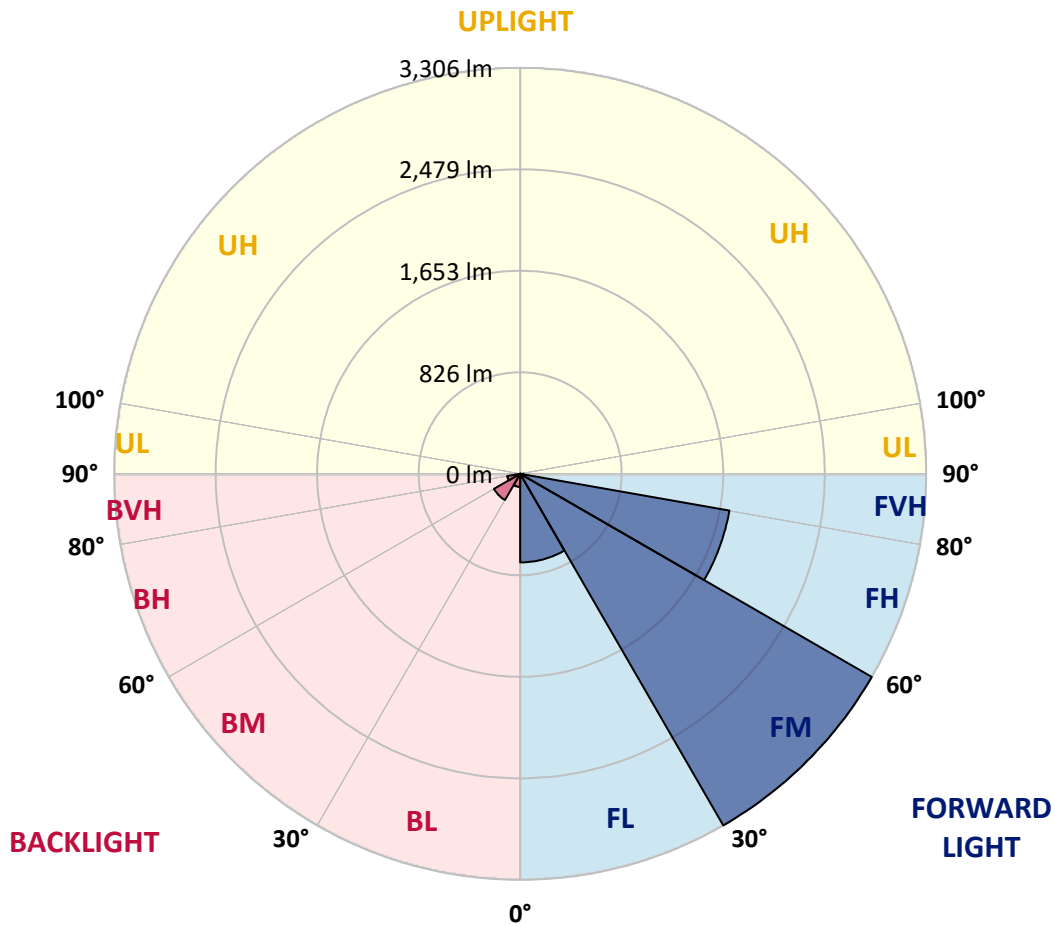
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.2	11.5			
FM (30°-60°)	3305.9	52.9			
FH (60°-80°)	1729.9	27.7			G1/1800
FVH (80°-90°)	28.5	0.5			G1/100
BL (0°-30°)	106.4	1.7	B0/110		
BM (30°-60°)	246.2	3.9	B1/1000		
BH (60°-80°)	106.4	1.7	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1
2.5°	997.0	1003.2	994.3	977.3	951.7	935.0	894.3	855.9	813.2	799.6
5°	1215.4	1220.8	1210.7	1192.1	1158.0	1125.4	1071.9	991.6	908.2	881.5
7.5°	1377.1	1380.2	1376.3	1359.2	1326.7	1289.8	1230.1	1135.1	1011.4	981.9
10°	1493.4	1503.5	1502.3	1495.7	1474.0	1444.2	1380.6	1272.4	1126.9	1088.9
12.5°	1570.6	1581.8	1588.4	1603.2	1602.0	1583.0	1527.1	1412.7	1242.1	1197.5
15°	1593.1	1605.1	1630.3	1664.4	1694.7	1704.4	1665.2	1550.4	1368.9	1311.9
17.5°	1580.3	1598.9	1629.1	1683.0	1749.4	1793.2	1788.9	1683.4	1484.1	1419.0
20°	1608.6	1626.4	1650.1	1695.5	1772.6	1852.1	1883.9	1810.6	1598.5	1530.2
22.5°	1765.3	1762.2	1764.5	1771.8	1818.0	1896.7	1962.3	1926.2	1711.7	1641.9
25°	2013.4	1999.5	1975.8	1935.9	1924.3	1962.3	2030.5	2028.6	1831.2	1756.3
27.5°	2298.1	2295.8	2240.3	2144.1	2089.8	2075.1	2107.7	2128.2	1949.5	1869.6
30°	2570.7	2576.9	2502.1	2395.0	2295.4	2237.6	2208.1	2222.9	2069.7	1991.7
32.5°	2808.0	2814.6	2733.2	2607.9	2484.6	2414.8	2352.8	2316.3	2200.8	2115.8
35°	3008.5	3015.1	2921.7	2783.2	2651.8	2588.5	2518.4	2418.7	2332.6	2253.5
37.5°	3187.7	3185.8	3060.5	2920.9	2791.8	2741.7	2704.9	2544.7	2468.3	2391.9
40°	3293.6	3301.7	3194.7	3040.7	2915.5	2879.0	2876.7	2701.0	2625.0	2550.9
42.5°	3324.6	3338.9	3261.4	3135.0	3021.3	2981.8	3042.7	2870.1	2807.3	2735.1
45°	3268.7	3282.7	3247.4	3159.8	3093.5	3067.9	3185.4	3045.4	3001.9	2930.6
47.5°	3105.9	3123.3	3131.9	3113.2	3112.5	3138.4	3313.3	3230.0	3233.1	3160.2
50°	2790.6	2820.1	2898.4	2964.3	3066.3	3194.3	3437.8	3430.1	3493.7	3430.8
52.5°	2217.4	2259.3	2529.2	2709.5	2938.7	3183.8	3574.7	3751.2	3950.9	3859.0
55°	1781.9	1781.9	2001.4	2338.8	2689.8	3114.8	3634.4	3959.8	4262.3	4240.6
57.5°	1452.7	1470.1	1610.1	1908.4	2329.5	2950.4	3671.3	4090.9	4513.2	4497.3
60°	896.6	934.2	1198.7	1493.0	1919.6	2657.6	3648.0	4223.5	4817.6	4830.4
62.5°	504.9	518.9	636.8	1074.2	1492.6	2264.0	3470.0	4297.6	5207.0	5261.3
65°	348.6	355.6	401.0	668.6	1034.6	1802.5	3122.2	4251.4	5597.1	5706.8
67.5°	253.2	256.7	285.0	408.4	613.9	1306.9	2576.9	4018.7	5803.8	5987.2
70°	194.7	197.0	217.6	268.4	362.6	806.6	1871.5	3556.1	5654.1	5873.2
72.5°	158.2	160.5	176.4	198.6	240.4	477.0	1134.3	2887.9	4993.3	5229.8
75°	133.4	136.5	150.9	165.2	188.5	306.4	532.1	2011.1	3755.0	3910.2
77.5°	74.1	68.3	122.5	136.9	159.0	193.9	249.0	1183.6	2103.0	2146.1
80°	46.1	47.7	97.3	110.1	122.2	97.7	114.0	455.7	729.1	692.6
82.5°	2.7	6.2	74.8	79.5	83.8	41.9	43.0	154.7	175.7	161.3
85°	0.0	0.0	34.1	27.5	29.1	12.0	12.4	36.1	23.7	25.6
87.5°	0.0	0.0	0.0	0.8	0.0	1.2	2.3	3.1	1.2	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
720.1	0°	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1
757.0	2.5°	729.8	702.7	647.6	593.7	549.9	509.2	480.1	452.6	438.6	437.8
805.8	5°	751.9	694.9	584.8	487.5	409.1	346.3	305.6	276.5	261.8	256.7
866.0	7.5°	783.0	697.3	529.7	394.4	302.1	248.2	224.9	215.6	212.5	209.0
933.8	10°	822.1	702.7	480.5	317.6	238.1	211.0	201.7	197.8	195.5	193.1
1010.2	12.5°	866.0	707.7	431.6	263.7	209.4	195.5	188.9	184.2	181.1	178.4
1088.5	15°	908.6	710.8	380.8	226.1	194.7	183.4	176.4	171.4	167.1	164.0
1165.3	17.5°	950.9	715.1	333.1	203.6	182.7	171.4	164.4	158.2	154.7	151.2
1246.0	20°	997.8	714.3	288.1	187.7	170.6	159.4	152.0	146.2	142.7	138.8
1331.3	22.5°	1041.2	710.4	248.6	174.1	158.2	147.4	139.2	133.4	129.9	126.8
1418.6	25°	1091.3	707.3	215.6	161.7	146.6	135.7	126.8	121.4	117.5	114.8
1506.2	27.5°	1139.3	702.7	191.6	150.5	135.3	124.9	116.3	110.1	106.6	104.7
1596.6	30°	1186.7	701.5	182.7	139.6	125.3	114.8	106.3	100.4	97.7	96.9
1695.8	32.5°	1243.7	704.6	186.5	135.7	116.0	105.5	97.3	93.1	90.4	90.4
1806.4	35°	1304.6	703.9	192.3	139.2	109.7	96.2	90.0	87.3	84.5	84.5
1928.9	37.5°	1380.9	705.0	197.0	145.0	107.4	88.4	84.9	81.4	79.9	79.9
2063.1	40°	1495.0	743.4	194.7	150.1	106.6	83.0	76.0	74.8	73.7	73.7
2214.7	42.5°	1634.6	826.8	197.8	150.5	106.3	79.1	69.8	72.1	69.4	69.0
2385.7	45°	1787.4	917.9	217.6	142.3	105.9	77.2	66.7	69.4	65.2	65.2
2583.9	47.5°	1939.0	1008.3	237.7	130.7	104.7	76.8	64.0	62.4	61.3	61.7
2842.2	50°	2148.0	1082.0	245.5	114.8	102.0	76.0	58.9	59.3	58.6	59.3
3206.3	52.5°	2375.6	1097.5	236.2	96.9	94.2	73.7	55.5	57.0	56.6	57.4
3462.6	55°	2517.6	1080.8	195.1	80.7	82.2	64.4	52.0	55.1	55.1	55.1
3713.2	57.5°	2664.2	1009.8	138.4	65.5	68.3	52.7	48.9	53.1	52.7	52.4
4014.9	60°	2769.7	895.0	91.1	53.9	54.3	43.4	45.4	50.0	49.6	47.7
4325.9	62.5°	2848.4	768.2	58.6	45.8	41.5	39.2	41.5	45.4	43.8	39.6
4589.6	65°	2839.5	592.6	45.0	39.2	34.1	34.1	36.1	39.6	34.9	27.9
4640.0	67.5°	2673.9	401.0	37.2	33.0	28.7	28.3	29.9	33.0	29.9	23.7
4381.7	70°	2378.0	262.2	29.9	25.6	22.9	20.9	24.0	28.3	25.2	19.0
3730.2	72.5°	1930.1	159.8	22.5	18.6	16.7	13.6	19.0	23.3	20.2	14.0
2594.0	75°	1248.7	81.4	15.5	12.0	8.9	8.1	14.0	17.5	14.0	8.5
1151.0	77.5°	477.8	34.1	8.5	5.4	4.7	3.9	7.8	10.5	5.8	1.9
223.0	80°	91.9	14.3	4.3	2.7	2.3	1.6	1.2	0.8	0.0	0.0
39.6	82.5°	15.9	4.7	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
7.8	85°	5.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.7	87.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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180°
720.1
437.0
255.9
208.2
192.3
177.6
163.7
150.9
138.4
126.4
114.4
104.7
96.6
90.4
84.5
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